Hamud

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/101,823

CRF Processing Date: 1/13/2000

Edited by: _____

Verified by: _____ (STIC staff)

ENTERED

- [ ] Changed a file from non-ASCII to ASCII

- [ ] Changed the margins in cases where the sequence text was "wrapped" down to the next line.

- [ ] Edited a format error in the Current Application Data section, specifically: _____

- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____ .

- [ ] Added the mandatory heading and subheadings for "Current Application Data".

- [ ] Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- [ ] Inserted colons after headings/subheadings. Headings edited included: _____

- [ ] Deleted extra, invalid, headings used by an applicant, specifically: _____

- [ ] Deleted: [ ] non-ASCII "garbage" at the beginning/end of files; [ ] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as _____ .

- [ ] Inserted mandatory headings, specifically: _____

- [ ] Corrected an obvious error in the response, specifically: _____

- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.

- [ ] Corrected an error in the Number of Sequences field, specifically: _____

- [ ] A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- [ ] Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- [x] Other: Seqr 19-22 - deleted INFORMATION from (ix) FEATURE: and added (D) OTHER INFO. heading

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION *US/09/101,825*

DATE: 01/13/2000
TIME: 16:03:37

INPUT SET: S34448.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

```
 1                            SEQUENCE LISTING
 2
 3   (1)     General Information:
 4
 5      (i) APPLICANT: GRONHOJ LARSEN, Christian
 6                     GESSER, Borbala
 7
 8     (ii) TITLE OF INVENTION: IMMUNOMODULATORS
 9
10    (iii) NUMBER OF SEQUENCES: 23
11
12     (iv) CORRESPONDENCE ADDRESS:
13          (A) ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
14          (B) STREET: 624 Ninth Street N.W., Suite 300
15          (C) CITY: Washington
16          (D) STATE: D.C.
17          (E) COUNTRY: U.S.A.
18          (F) ZIP: 20001
19
20      (v) COMPUTER READABLE FORM:
21          (A) MEDIUM TYPE: Floppy disk
22          (B) COMPUTER: IBM PC compatible
23          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24          (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25
26     (vi) CURRENT APPLICATION DATA:
27          (A) APPLICATION NUMBER: US 09/101,825
28          (B) FILING DATE: 17-JUL-1998
29
30    (vii) PRIOR APPLICATION DATA:
31          (A) APPLICATION NUMBER: PCT/DK97/00021
32          (B) FILING DATE: 16-JAN-1997
33
34    (vii) PRIOR APPLICATION DATA:
35          (A) APPLICATION NUMBER: PCT/DK96/00029
36          (B) FILING DATE: 18-JAN-1996
37
38   (viii) ATTORNEY/AGENT INFORMATION:
39          (A) NAME: COOPER, Iver P.
40          (B) REGISTRATION NUMBER: 28,005
41          (C) REFERENCE/DOCKET NUMBER: GRONHOJ-LARSEN=2
42
43     (ix) TELECOMMUNICATION INFORMATION:
44          (A) TELEPHONE: (202)628-5197
45          (B) TELEFAX: (202)737-3528
46
```

```
47
48    (2) INFORMATION FOR SEQ ID NO:1:
49
50        (i) SEQUENCE CHARACTERISTICS:
51            (A) LENGTH: 9 amino acids
52            (B) TYPE: amino acid
53            (C) STRANDEDNESS: single
54            (D) TOPOLOGY: linear
55
56        (ii) MOLECULE TYPE: peptide
57
58        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
59
60        Ala Tyr Met Thr Met Lys Ile Arg Asn
61        1               5
62
63
64    (2) INFORMATION FOR SEQ ID NO:2:
65
66        (i) SEQUENCE CHARACTERISTICS:
67            (A) LENGTH: 9 amino acids
68            (B) TYPE: amino acid
69            (C) STRANDEDNESS: single
70            (D) TOPOLOGY: linear
71
72        (ii) MOLECULE TYPE: peptide
73
74        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
75
76        Ala Tyr Met Thr Ile Lys Met Arg Asn
77        1               5
78
79
80    (2) INFORMATION FOR SEQ ID NO:3:
81
82        (i) SEQUENCE CHARACTERISTICS:
83            (A) LENGTH: 9 amino acids
84            (B) TYPE: amino acid
85            (C) STRANDEDNESS: single
86            (D) TOPOLOGY: linear
87
88        (ii) MOLECULE TYPE: peptide
89
90        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
91
92        Ala Phe Met Thr Leu Lys Leu Arg Asn
93        1               5
94
95
96    (2) INFORMATION FOR SEQ ID NO:4:
97
98        (i) SEQUENCE CHARACTERISTICS:
99            (A) LENGTH: 9 amino acids
```

```
100                (B) TYPE: amino acid
101                (C) STRANDEDNESS: single
102                (D) TOPOLOGY: linear
103
104         (ii) MOLECULE TYPE: peptide
105
106         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
107
108         Ala Tyr Met Thr Met Lys Val Arg Glu
109         1               5
110
111
112    (2) INFORMATION FOR SEQ ID NO:5:
113
114         (i) SEQUENCE CHARACTERISTICS:
115                (A) LENGTH: 9 amino acids
116                (B) TYPE: amino acid
117                (C) STRANDEDNESS: single
118                (D) TOPOLOGY: linear
119
120         (ii) MOLECULE TYPE: peptide
121
122         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
123
124         Gly Tyr Met Thr Met Lys Ile Arg Asp
125         1                5
126
127
128    (2) INFORMATION FOR SEQ ID NO:6:
129
130         (i) SEQUENCE CHARACTERISTICS:
131                (A) LENGTH: 9 amino acids
132                (B) TYPE: amino acid
133                (C) STRANDEDNESS: single
134                (D) TOPOLOGY: linear
135
136         (ii) MOLECULE TYPE: peptide
137
138         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
139
140         Ala Phe Met Thr Met Lys Ile Arg Asp
141         1                5
142
143
144    (2) INFORMATION FOR SEQ ID NO:7:
145
146         (i) SEQUENCE CHARACTERISTICS:
147                (A) LENGTH: 9 amino acids
148                (B) TYPE: amino acid
149                (C) STRANDEDNESS: single
150                (D) TOPOLOGY: linear
151
152         (ii) MOLECULE TYPE: peptide
```

```
153
154        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
155
156        Ala Tyr Ile Thr Met Lys Ile Arg Asp
157        1               5                   .
158
159
160    (2) INFORMATION FOR SEQ ID NO:8:
161
162        (i) SEQUENCE CHARACTERISTICS:
163            (A) LENGTH: 9 amino acids
164            (B) TYPE: amino acid
165            (C) STRANDEDNESS: single
166            (D) TOPOLOGY: linear
167
168    (ii) MOLECULE TYPE: peptide
169
170    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
171
172        Ala Tyr Leu Thr Met Lys Ile Arg Asp
173        1               5
174
175
176    (2) INFORMATION FOR SEQ ID NO:9:
177
178        (i) SEQUENCE CHARACTERISTICS:
179            (A) LENGTH: 9 amino acids
180            (B) TYPE: amino acid
181            (C) STRANDEDNESS: single
182            (D) TOPOLOGY: linear
183
184        (ii) MOLECULE TYPE: peptide
185
186        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
187
188        Ala Tyr Val Thr Met Lys Ile Arg Asp
189        1                5
190
191
192    (2) INFORMATION FOR SEQ ID NO:10:
193
194        (i) SEQUENCE CHARACTERISTICS:
195            (A) LENGTH: 9 amino acids
196            (B) TYPE: amino acid
197            (C) STRANDEDNESS: single
198            (D) TOPOLOGY: linear
199
200    (ii) MOLECULE TYPE: peptide
201
202
203    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
204
205        Ala Tyr Met Thr Ile Lys Ile Arg Asp
```

```
206          1                5
207
208
209    (2) INFORMATION FOR SEQ ID NO:11:
210
211       (i) SEQUENCE CHARACTERISTICS:
212           (A) LENGTH: 9 amino acids
213           (B) TYPE: amino acid
214           (C) STRANDEDNESS: single
215           (D) TOPOLOGY: linear
216
217      (ii) MOLECULE TYPE: peptide
218
219      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
220
221       Ala Tyr Met Thr Leu Lys Ile Arg Asp
222       1                5
223
224
225    (2) INFORMATION FOR SEQ ID NO:12:
226
227       (i) SEQUENCE CHARACTERISTICS:
228           (A) LENGTH: 9 amino acids
229           (B) TYPE: amino acid
230           (C) STRANDEDNESS: single
231           (D) TOPOLOGY: linear
232
233      (ii) MOLECULE TYPE: peptide
234
235      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
236
237       Ala Tyr Met Thr Val Lys Ile Arg Asp
238       1                5
239
240
241    (2) INFORMATION FOR SEQ ID NO:13:
242
243       (i) SEQUENCE CHARACTERISTICS:
244           (A) LENGTH: 9 amino acids
245           (B) TYPE: amino acid
246           (C) STRANDEDNESS: single
247           (D) TOPOLOGY: linear
248
249      (ii) MOLECULE TYPE: peptide
250
251      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
252
253       Ala Tyr Met Thr Met Lys Ile Arg Asp
254       1                5
255
256
257    (2) INFORMATION FOR SEQ ID NO:14:
258
```

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RAW SEQUENCE LISTING
PATENT APPLICATION   *US/09/101,825*

DATE: 01/13/2000
TIME: 16:03:39

INPUT SET: S34448.raw

＊　＊　PREVIOUSLY ERRORED SEQUENCES - EDITED .***

```
338   (2) INFORMATION FOR SEQ ID NO:19:
339
340       (i) SEQUENCE CHARACTERISTICS:
341           (A) LENGTH: 6 amino acids
342           (B) TYPE: amino acid
343           (C) STRANDEDNESS: single
344           (D) TOPOLOGY: linear
345
346      (ii) MOLECULE TYPE: peptide
347
348      (ix) FEATURE:
349           (D) OTHER INFORMATION: Xaa in position 2 is Met, Ile, Leu or Val;
350               Xaa in position 4 is Met, Ile, Leu or Val;
351               Xaa in position 6 is Asn, Asp, Gln or Glu.
352
353      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
354
355       Thr Xaa Lys Xaa Arg Xaa
356       1               5
357
358
```

```
359   (2) INFORMATION FOR SEQ ID NO:20:
360
361       (i) SEQUENCE CHARACTERISTICS:
362           (A) LENGTH: 7 amino acids
363           (B) TYPE: amino acid
364           (C) STRANDEDNESS: single
365           (D) TOPOLOGY: linear
366
367      (ii) MOLECULE TYPE: peptide
368
369      (ix) FEATURE:
370           (D) OTHER INFORMATION: Xaa in position 1 is Met, Ile, Leu or Val;
371               Xaa in position 3 is Met, Ile, Leu or Val;
372        ·      Xaa in position 5 is Met, Ile, Leu or Val;
373               Xaa in position 7 is Asn, Asp, Gln or Glu.
374
375      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:
376
377       Xaa Thr Xaa Lys Xaa Arg Xaa
378       1               5
379
380
```

```
381   (2) INFORMATION FOR SEQ ID NO:21:
382
```

```
383          (i) SEQUENCE CHARACTERISTICS:
384              (A) LENGTH: 8 amino acids
385              (B) TYPE: amino acid
386              (C) STRANDEDNESS: single
387              (D) TOPOLOGY: linear
388
389      (ii) MOLECULE TYPE: peptide
390
391      (ix) FEATURE:
392              (D) OTHER INFORMATION:   Xaa in position 1 is Tyr or Phe;
393                  Xaa in position 2 is Met, Ile, Leu or Val;
394                  Xaa in position 4 is Met, Ile, Leu or Val;
395                  Xaa in position 6 is Met, Ile, Leu or Val;
396                  Xaa in position 8 is Asn, Asp, Gln or Glu.
397
398      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
399
400      Xaa Xaa Thr Xaa Lys Xaa Arg Xaa
401      1               5
402
403
404
405
```

```
406  (2) INFORMATION FOR SEQ ID NO:22:
407
408          (i) SEQUENCE CHARACTERISTICS:
409              (A) LENGTH: 9 amino acids
410              (B) TYPE: amino acid
411              (C) STRANDEDNESS: single
412              (D) TOPOLOGY: linear
413
414      (ii) MOLECULE TYPE: peptide
415
416      (ix) FEATURE:
417              (D) OTHER INFORMATION:  Xaa in position 1 is Ala or Gly;
418                  Xaa in position 2 is Tyr or Phe;
419                  Xaa in position 3 is Met, Ile, Leu or Val;
420                  Xaa in position 5 is Met, Ile, Leu or Val;
421                  Xaa in position 7 is Met, Ile, Leu or Val;
422                  Xaa in position 9 is Asn, Asp, Gln or Glu.
423
424      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:
425
426      Xaa Xaa Xaa Thr Xaa Lys Xaa Arg Xaa
427      1               5
428
429
```

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION   *US/09/101,825*

INPUT SET: S34448.raw

Line   Error   Original Text